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### NOTICE OF ALLOWANCE AND FEE(S) DUE

21171

7590

04/03/2008

STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005

EXAMINER				
LEE, CHEUKFAN				
ART UNIT	PAPER NUMBER			

2625 DATE MAILED: 04/03/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,164	12/15/2003	Deuk-Hwan Chang	1793.1040	2100

TITLE OF INVENTION: SCANNER APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/03/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOR	RNEY DOCKET NO.	CONFIRMATION NO.
10/734,164	12/15/2003	L	Deuk-Hwan Chang			1793.1040	2100
TITLE OF INVENTION		TUS	Deak Hwan Chang			1773.1010	2100
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0		\$1740	07/03/2008
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☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
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PLEASE NOTE: Unl	less an assignee is ident	ified below, no assignee	data will appear on the pa	atent. If an assign	ee is ide	entified below, the do	cument has been filed for
	•	oletion of this form is NO	T a substitute for filing an : (B) RESIDENCE: (CITY	0		237)	
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Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent): $\Box$	Individual 🗖 Co	orporatio	on or other private grou	up entity 🗖 Government
4a. The following fee(s)	are submitted:	41	b. Payment of Fee(s): ( <b>Plea</b>	se first reapply ar	ıv previ	ously paid issue fee s	hown above)
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Advance Order -	# of Copies		The Director is hereby overpayment, to Depo	authorized to char sit Account Numbe	ge the re	equired fee(s), any def enclose an	iciency, or credit any extra copy of this form).
5. Change in Entity Sta	tus (from status indicate	d above)					
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NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than the Office.	ne applicant; a regi	stered a	ttorney or agent; or the	e assignee or other party in
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Authorized Signature  Typed or printed name							
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an application. Confiden submitting the completed this form and/or suggesti	tiality is governed by 35 d application form to the ions for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	on is required to obtain of r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	imated to take 12 r idual case. Any co cr. U.S. Patent and	minutes omments Tradem	to complete, including on the amount of time ark Office, U.S. Depar	g gathering, preparing, and be you require to complete t ment of Commerce, P.O.

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10/734,164	12/15/2003	Deuk-Hwan Chang	1793.1040	2100	
21171 75	21171 7590 04/03/2008		EXAMINER		
STAAS & HALSEY LLP		LEE, CHEUKFAN			
SUITE 700			ART UNIT	PAPER NUMBER	
1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005		2625 DATE MAILED: 04/03/200	8		

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 989 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 989 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/734,164	CHANG, DEUK-HWAN
Notice of Allowability	Examiner	Art Unit
	Cheukfan Lee	2625
	Cheuklan Lee	2025
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	oplication. If not included n will be mailed in due course. <b>THIS</b>
1. X This communication is responsive to <u>January 31, 2008</u> .		
2. X The allowed claim(s) is/are <u>1-4,7,9,10, and 12-16, now ren</u>	umbered 1-12, respectively.	
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>		
2. ☐ Certified copies of the priority documents have		
3. ☐ Copies of the certified copies of the priority do	- ''	
International Bureau (PCT Rule 17.2(a)).		The state of the s
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application. itted. Note the attached EXAMINER	R'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which give	· , -	ation is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus		040) # 1 1
(a) ☐ including changes required by the Notice of Draftspers	•	-948) attached
1) hereto or 2) to Paper No./Mail Date		Office cation of
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the t	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s)	5. Notice of Informal I	Datant Application
<ol> <li>Notice of References Cited (PTO-892)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	5. ☐ Notice of Informal I 6. ☐ Interview Summary	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7.	ate
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9.  Other	
	/Cheukfan Lee/ Primary Examiner, Art Uni	it 2625

Application/Control Number: 10/734,164 Page 2

Art Unit: 2625

1. Claims 1, 2, 4, 7, 9, 10, and 12-16 are allowed. Claims 1, 9, 10, and 13 are independent.

2. The following is an examiner's statement of reasons for allowance:

Claims 1 and 10 as amended include the allowable limitations of claims 6 and 11, respectively, now canceled.

Claims 9 and 13 have been rewritten in independent form.

The reasons for allowance for claims 6 and 11 are repeated below for claims 1 and 10, respectively, and the reasons for allowance for claims 9 and 13 are also repeated below.

Claim 1 is allowable over the prior art of record, including Bright et al. (U.S. Patent No. 4,975,735) and Kawai et al. (U.S. Patent No. 6,043,866). None of Bright et al. and Kawai et al. discloses a plurality of sensing holes formed in the carrier sheet so that the sensor senses the scanning start position and the scanning end position as claimed.

Claims 2, 4, 7, and 14-16 depend on claim 1.

Claim 9 is allowable over the prior art of record because the prior art, including Bright et al. (US 4,975,735) does not disclose that a power transmission unit is provided

between the feed roller and the calibration unit, for transmitting a driving force of the feed roller to the calibration unit.

Claims 10 and 13 are allowable for a reason similar to the reason given for claim 9. A power transmission unit provided between the tension roller or the feed roller and the power source, for transmitting the driving force of the power source to the tension roller or the feed roller, is not taught by the prior art of record, including Right et al. (US 4,975,735) and Kawai (US 6,043,866).

Claim 12 depends on claim 10

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cheukfan Lee whose telephone number is (571) 272-7407. The examiner can normally be reached on 9:30 a.m. to 6:00 p.m., Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on (571) 272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/734,164 Page 4

Art Unit: 2625

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Cheukfan Lee/ Primary Examiner, Art Unit 2625